

FIG. 1

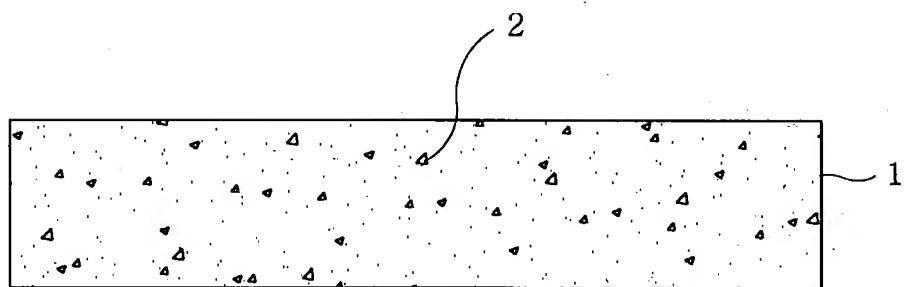


FIG.2A

1) COLIFORM

(CFU /mℓ)

	SPECIFICATION OF SAMPLE	CULTIVATION TIME		REDUCTION RATE(%)
		0 Hour	24 Hour	
Blank		1.8×10^5	6.8×10^6	
#1	15nm-50ppm	(1) 1.8×10^5	< 10	99.9
		(2) 1.7×10^5	< 10	99.9
#2	15nm-200ppm	(1) 1.8×10^5	1.4×10^4	99.8
		(2) 1.7×10^5	1.4×10^4	99.8
#3	15nm-500ppm	(1) 1.8×10^5	1.4×10^4	99.8
		(2) 1.7×10^5	1.4×10^4	99.8
#4	50~80nm-50ppm	(1) 1.8×10^5	1.4×10^4	99.8
		(2) 1.7×10^5	1.4×10^4	99.8
#5	50~80nm-200ppm	(1) 1.8×10^5	1.4×10^4	99.8
		(2) 1.7×10^5	1.4×10^4	99.8
#6	50~80nm-500ppm	(1) 1.8×10^5	< 10	99.9
		(2) 1.7×10^5	< 10	99.9

CFU: Colony Forming Unit

FIG.2B

2) STAPHYLOCOCCUS

(CFU /mL)

	SPECIFICATION OF SAMPLE	CULTIVATION TIME		REDUCTION RATE(%)
		0 Hour	24 Hour	
Blank		1.5×10^5	6.4×10^4	
#1	15nm-50ppm	(1) 1.5×10^5	2.6×10^4	99.6
		(2) 1.4×10^5	3.2×10^4	99.5
#2	15nm-200ppm	(1) 1.5×10^5	1.9×10^4	99.7
		(2) 1.4×10^5	1.9×10^4	99.7
#3	15nm-500ppm	(1) 1.5×10^5	1.3×10^4	99.8
		(2) 1.4×10^5	1.3×10^4	99.8
#4	50~80nm-50ppm	(1) 1.5×10^5	3.8×10^4	99.4
		(2) 1.4×10^5	4.5×10^4	99.3
#5	50~80nm-200ppm	(1) 1.5×10^5	1.9×10^4	99.7
		(2) 1.4×10^5	1.9×10^4	99.7
#6	50~80nm-500ppm	(1) 1.5×10^5	1.3×10^4	99.8
		(2) 1.4×10^5	1.3×10^4	99.8

CFU: Colony Forming Unit

FIG. 3A

MacConkey AGAR MEDIUM CULTIVATION OF BACTERIA (TANGERINE)

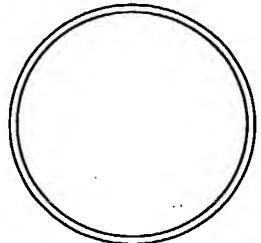
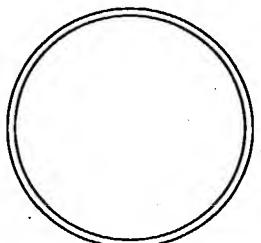
	INITIAL STATE	AFTER 60 DAYS	NUMBER OF BACTERIA (NUMBER /ml)
CONVENTIONAL VESSEL			3.7×10^6
NANOSILVER VESSEL			9.1×10^3

FIG.3B

NUMBER OF BACTERIA (NUMBER/ml)

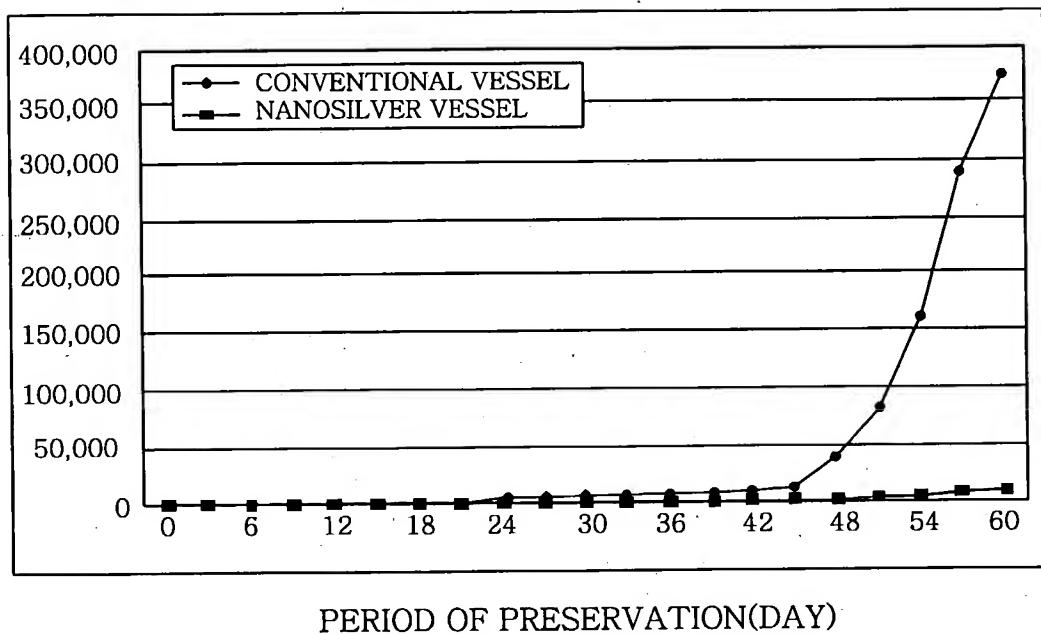


FIG. 4A

MacConkey AGAR MEDIUM CULTIVATION OF BACTERIA (MEAT)

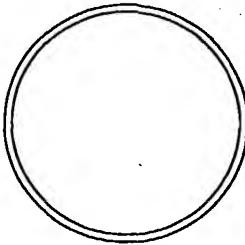
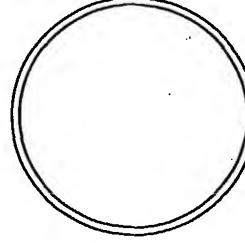
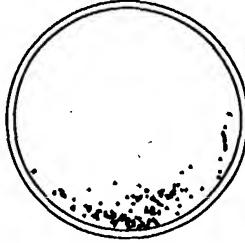
	INITIAL STATE	AFTER 60 DAYS	NUMBER OF BACTERIA (NUMBER /ml)
CONVENTIONAL VESSEL			3.8×10^7
NANOSILVER VESSEL			5.8×10^5

FIG. 4B

NUMBER OF BACTERIA (NUMBER/ml)

